



## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

### RF Cables Technical Data Sheet

**PE-P086HF-BULK**

#### Configuration

- Flexible Cable
- 2 Shield(s)

#### Description

Pasternack's PE-P086HF is a flexible, high frequency coaxial cable that provides similar loss characteristics to semi-rigid cable and low VSWR of 1.3:1 maximum up to 40 GHz. The low loss coax cable features silver-plated conductors and dual shields to maintain a shielding effectiveness of 110 dB. The size of the conductors for this low VSWR coax was specifically chosen to allow termination with standard connectors designed for M17/133-RG405 and other M17/133 cables. The outer shield is coated with a tough, chemical and heat resistant jacket. This PE-P086HF flexible low loss coaxial cable is a great choice for short length, high frequency system hook-up or jumper cable applications. The Pasternack coax cable can also be used as a replacement option for bent semi-rigid cable assemblies when length and routing are considered.

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 40      | GHz          |
| Impedance               |         | 50 ±2        |         | Ohms         |
| Velocity of Propagation |         | 70           |         | %            |
| Nominal Capacitance     |         | 29.4 [96.46] |         | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket PE-P086HF-BULK](#)



## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

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#### Performance by Frequency Band

| Description      | F1    | F2    | F3     | F4     | F5     | Units    |
|------------------|-------|-------|--------|--------|--------|----------|
| Frequency        | 0.4   | 1     | 2      | 2.4    | 3      | GHz      |
| Attenuation, Max | 13.1  | 21.1  | 30.5   | 33.7   | 38     | dB/100ft |
|                  | 42.98 | 69.23 | 100.07 | 110.56 | 124.67 | dB/100m  |
| Attenuation, Typ | 11.9  | 19.2  | 27.7   | 30.6   | 34.5   | dB/100ft |
|                  | 39.04 | 62.99 | 90.88  | 100.39 | 113.19 | dB/100m  |

| Description      | F6     | F7     | F8     | F9     | F10 | Units    |
|------------------|--------|--------|--------|--------|-----|----------|
| Frequency        | 5      | 10     | 18     | 40     |     | GHz      |
| Attenuation, Max | 50.3   | 74.3   | 104.6  | 170.3  |     | dB/100ft |
|                  | 165.03 | 243.77 | 343.18 | 558.73 |     | dB/100m  |
| Attenuation, Typ | 45.7   | 67.5   | 95.1   | 154.8  |     | dB/100ft |
|                  | 149.93 | 221.46 | 312.01 | 507.87 |     | dB/100m  |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.104 in [2.64 mm]       |
| Weight                          | 0.013 lbs/ft [0.02 kg/m] |
| Min. Bend Radius (Installation) | 0.52 in [13.21 mm]       |

#### Construction Specifications

| Description     | Material and Plating                | Diameter           |
|-----------------|-------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strand | 0.02 in [0.51 mm]  |
| Conductor Type  | Solid                               |                    |
| Dielectric      | PTFE                                | 0.064 in [1.63 mm] |
| First Shield    | Silver Plated Copper Tape           | [ ]                |
| Second Shield   | Silver Plated Copper Braid          | [ ]                |

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## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

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|        |           |                    |
|--------|-----------|--------------------|
| Jacket | FEP, Blue | 0.104 in [2.64 mm] |
|--------|-----------|--------------------|

#### Environmental Specifications

##### Temperature

Operating Range -55 to +200 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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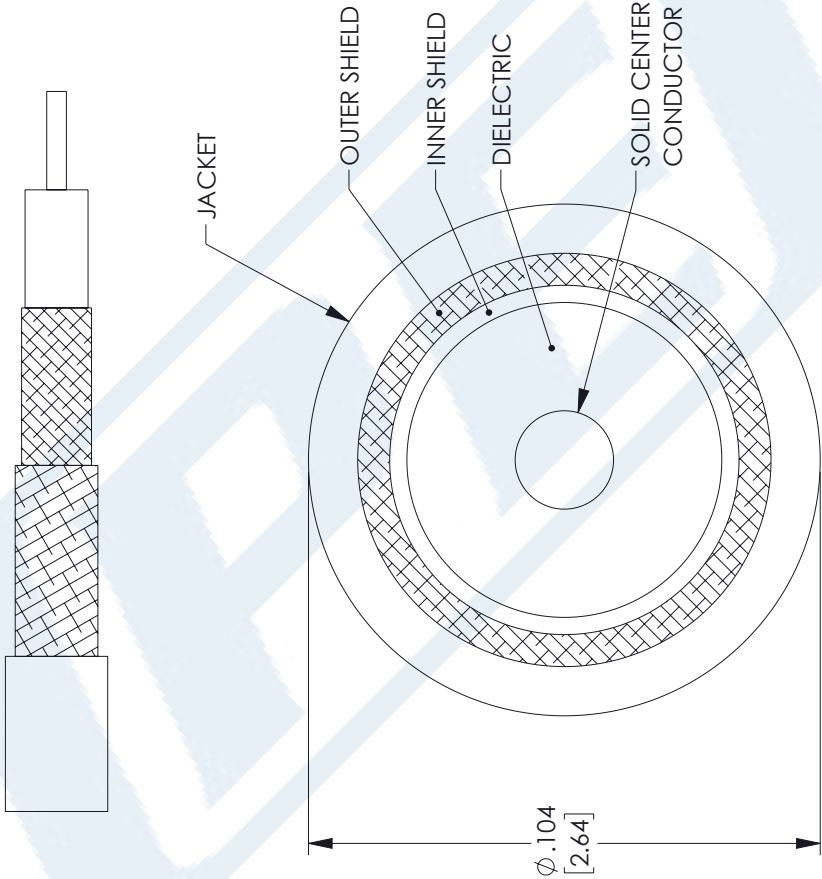
URL: <https://www.pasternack.com/50-ohm-flexible-invalid-alias-fep-jacket-silver-plated-copper-tape-over-silver-plated-copper-braid-outer-conductor-double-shielded-blue-pe-p086hf-bulk-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE-P086HF-BULK CAD Drawing

Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 03/07/2022 | AGANWANI |



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

|               |       |             |
|---------------|-------|-------------|
| .X = ± .2     | [.08] | FRACTIONS   |
| .XX = ± .02   | [.51] | ± 1/32      |
| .XXX = ± .005 | [.13] | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

|                             |                 |
|-----------------------------|-----------------|
| L ≤ 12 [305]                | = +1 [25] / -0  |
| 12 [305] < L ≤ 60 [1524]    | = +2 [51] / -0  |
| 60 [1524] < L ≤ 120 [3048]  | = +4 [102] / -0 |
| 120 [3048] < L ≤ 300 [7620] | = +6 [152] / -0 |
| 300 [7620] < L              | = +5%L / -0     |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.



**PASTERNAK**  
an INFINITE brand

Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: [www.pasternack.com](http://www.pasternack.com)  
E-mail: [sales@pasternack.com](mailto:sales@pasternack.com)

THIRD-ANGLE PROJECTION  


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SHEET 1 OF 1  
SCALE N/A

SIZE A  
CAGE CODE 53919  
DRAWN BY DZINN  
ITEM NO. PE-P086HF-BULK  
REV A

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